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Fundamentals and Applications of Multiphase Flow and Heat Transfer

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Message from the Guest Editors

Multiphase flow and heat transfer have wide applications in the fields of new and renewable energy, cleaning coal technology, nuclear energy, as well as mechanical engineering, petrochemical engineering, environmental engineering, etc. In order to achieve safety, high efficiency, and emission reduction in industrial processes, we must extend our research beyond its previous limits, broaching the fundamentals of multiphase flow and heat transfer in an interdisciplinary manner and focusing on extreme working conditions, complex fluids, cross-scale coupling, etc.

This Special Issue entitled "Fundamentals and Applications of Multiphase Flow and Heat Transfer" aspires to highlight the frontiers and recent progress in a broad range of theoretical studies and applications, covering a broad range of topics of interest, including but not limited to the following: cavitation, biomedical, acoustics, nucleation; contact line structure and dvnamics: industrial applications; micro- and nanoscale multiphase flows; modelling and computational methods; particle, bubble, and droplet dynamics; reactive multiphase turbulence in multiphase flows.











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Message from the Editor-in-Chief

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